NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-CB6A

Date: 12-03-2021

L. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
(Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-02-21	12-03-21	28	22500	525	23.33	**22.96**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Akshara Layout, 1st Cross Road , RHS

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A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

C/QC/YPD/2020-21/KL-CB7A **Date: 17-03-2021**

TEST REPORT ON CEMENT CONCRETE CUBES:

ub: Testing of Concrete Cubes (for 28days Compressive Strength).
roject*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
ef.: Material testing/PMC/20-21,
eport Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
ame of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

'ABLE 1.1:

Sl lo	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-02-21	17-03-21	28	22500	500	22.22	**22.74**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	515	22.89	

The result of the materials tested meets the standards and hence can be used for the work.
ample Collected Site : Akshara Layout Main Rd, LHS

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A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

C/QC/YPD/2020-21/KL-CB8A

Date: 19-03-2021

TEST REPORT ON CEMENT CONCRETE CUBES:

ub: Testing of Concrete Cubes (for 28days Compressive Strength).
Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
ef.: Material testing/PMC/20-21,
eport Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
ame of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

ABLE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	19-02-21	19-03-21	28	22500	510	22.67	**22.44**
002	”	“	”	“	505	22.44	
003	”	“	”	“	500	22.22	

ne result of the materials tested meets the standards and hence can be used for the work.
mple Collected Site : Akshara Layout Main Rd, RHS

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A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

C/QC/YPD/2020-21/KL-GSB1 **Date: 07-04-2021**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

ub: To conduct tests on GSB (Grade-V) mix.
Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
ef.: Material testing PMC/20-21.
eport Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
ame of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	96.35	80-100
26.50	79.90	55-90
9.50	56.25	35-65
4.75	43.10	25-50
2.36	17.35	10-20
0.85	8.15	2-10
0.425	4.05	0-5

ne result of the materials tested meets the standards and hence can be used for the work.
mple Collected Site : Akshara Layout Main Rd.

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Page No. 1/2,

A.E.E. (Project)

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Date: 07-04-2021

TABLE 1.2

Sl No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
	Water absorption, %	**0.42 %**	Not more than 2.0 %
	Liquid Limit, %	**18.36**	Not more than 25.0 %
	Plasticity Index, %	**NP**	Not more than 6.0 %
	Moisture Content, %	**6.59**	----------
	Aggregate Impact Value, %	**28.76**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Akshara Layout Main Rd

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A.E.E

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NEW TECHNOLOGIES TO INNOVATE

CON/NPD/2020-21/KL- GSB2 Date: 15-04-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
Project: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No 05 (Jakkur) Byatarayanapura Sub division.]
Ref: Material testing PMC 20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor: K R Santosh Kumar, Bangalore.

TEST RESULTS

. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	96.30	80-100
26.50	82.95	55-90
9.50	54.40	35-65
4.75	42.30	25-50
2.36	17.85	10-20
0.85	6.05	2-10
0.425	3.85	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Akshara Layout , 1st Cross Rd

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Page No. 1/2,

A.E.E. (Project)

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Date: 15-04-2021

TABLE 1.2

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
Water absorption, %	**0.41 %**	Not more than 2.0 %
Liquid Limit, %	**18.96**	Not more than 25.0 %
Plasticity Index, %	**NP**	Not more than 6.0 %
Moisture Content, %	**6.22**	----------
Aggregate Impact Value, %	**28.74**	Not more than 40.00 %

he result of the materials tested meets the standards and hence can be used for the work.
ample Collected Site : Akshara Layout , 1st Cross Rd

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A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

C/QC/YPD/2020-21/KL- GSB3 **Date: 20-04-2021**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub To conduct tests on GSB (Grade-V) mix.
Project* Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref. Material testing/PMC/20-21.
Report Required for Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor* K.R Santosh Kumar, Bangalore.

TEST RESULTS

Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**94.30**	80-100
26.50	**81.95**	55-90
9.50	**56.40**	35-65
4.75	**43.30**	25-50
2.36	**16.70**	10-20
0.85	**8.05**	2-10
0.425	**3.55**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road .

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Page No. 1/2,

A.E.E. (Project)

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Date: 20-04-2021

TABLE 1.2

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
Water absorption, %	**0.43 %**	Not more than 2.0 %
Liquid Limit, %	**18.36**	Not more than 25.0 %
Plasticity Index, %	**NP**	Not more than 6.0 %
Moisture Content, %	**6.48**	----------
Aggregate Impact Value, %	**28.63**	Not more than 40.00 %

ıe result of the materials tested meets the standards and hence can be used for the work.
ımple Collected Site : : Smashana Road

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A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

QC/YPD/2020-21/KL-WMM1 **Date: 14-06-2021**

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

ub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
roject*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
f.: Material testing/PMC/20-21,
port Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
me of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Gradation Test:
ABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.35**	95-100
26.50	**---**	-
22.40	**71.25**	60-80
11.20	**53.45**	40-60
4.75	**36.90**	25-40
2.36	**24.50**	15-30
0.600	**18.05**	8-22
0.075	**3.65**	0-5

e result of the materials tested meets the standards and hence can be used for the work.
mple Collected Site : Akshara Layout Main Rd

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Page No. 1/2,

A.E.E. (Project)

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Date: 14-06-2021

TABLE 1.2

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
Aggregate Impact Value	**27.86%**	Not more than 30.00 %
Combined Flakiness and Elongation index, %	**28.53%**	Not more than 35.0 %
Water absorption, %	**0.42 %**	Not more than 2.0 %
Plasticity Index, %	**NP**	Not more than 6.0 %

ıe result of the materials tested meets the standards and hence can be used for the work.
ımple Collected Site : Akshara Layout Main Rd)

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AEE (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL- WMM2

Date: 16-06-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.35**	95-100
26.50	**---**	-
22.40	**73.15**	60-80
11.20	**56.10**	40-60
4.75	**33.45**	25-40
2.36	**24.60**	15-30
0.600	**18.05**	8-22
0.075	**3.25**	0-5

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Akshara Layout , 1st Cross Rd

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Page No. 1/2,

A.E.E. (Project)

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Date: 16-06-2021

TABLE 1.2

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o R.T.H Specification, V Revision -2013.
Aggregate Impact Value	**27.56%**	Not more than 30.00 %
Combined Flakiness and Elongation index, %	**28.79%**	Not more than 35.0 %
Water absorption, %	**0.42 %**	Not more than 2.0 %
Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
ample Collected Site : Akshara Layout , 1st Cross Rd

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20.2.21
A.E.E (Project)

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Date: 16-06-2021

TABLE 1.2

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
Aggregate Impact Value	**27.56%**	Not more than 30.00 %
Combined Flakiness and Elongation index, %	**28.79%**	Not more than 35.0 %
Water absorption, %	**0.42 %**	Not more than 2.0 %
Plasticity Index, %	**NP**	Not more than 6.0 %

he result of the materials tested meets the standards and hence can be used for the work.
mple Collected Site : Akshara Layout , 1st Cross Rd

NEWZEN CONSULTANT Bangalore

Page No. 2/2

A.E.E (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL- WMM3 **Date: 21-06-2021**

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.45**	95-100
26.50	**---**	-
22.40	**73.15**	60-80
11.20	**51.25**	40-60
4.75	**37.65**	25-40
2.36	**24.80**	15-30
0.600	**19.30**	8-22
0.075	**4.15**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road.

NEWZEN CONSULTANT * Bangalore *

Page No. 1/2,

A.E.E. (Project)

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Date: 21-06-2021

TABLE 1.2

Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & MoRTH Specification, V Revision 2013
Aggregate Impact Value	27.65%	Not more than 30.00 %
Combined Flakiness and Elongation index, %	28.36 %	Not more than 35.0 %
Water absorption, %	0.42%	Not more than 2.0 %
Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site : Smashana Road

NEWZEN CONSULTANT Bangalore

A.E.E. (Project)

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

)C /YPD/2020-21/KL - WMM4

Date: 24-06-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

To conduct Gradation test on Wet Mix Macadam (WMM) Mix

ject* Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No 05 (Jakkur) Byatarayanapura Sub division)

Material testing PMC/20-21,

rt Required for Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore

e of the Agency/Contractor* K.R Santosh Kumar, Bangalore.

TEST RESULTS

radation Test:

H E 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.10	95-100
26.50	---	-
22.40	74.35	60-80
11.20	56.80	40-60
4.75	31.55	25-40
2.36	25.30	15-30
0.600	18.90	8-22
0.075	3.45	0-5

esult of the materials tested meets the standards and hence can be used for the work.

le Collected Site : Smashana Road.

NEWZEN CONSULTANT * Bangalore *

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Date: 30-06-2021

TABLE 1.2

Sl. No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV) 1963 (Reaffirmed on 2002) & Requirements as per IS 383 1970 & M o R T H Specification, V Revision 2013.
	Aggregate Impact Value	**27.51%**	Not more than 30.00 %
	Combined Flakiness and Elongation index, %	**28.76%**	Not more than 35.0 %
	Water absorption, %	**0.42 %**	Not more than 2.0 %
	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Kattigenahalli Lake Rd

A.E.E (Project)

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-WMM5 **Date: 28-06-2021**

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.35**	95-100
26.50	**---**	-
22.40	**71.25**	60-80
11.20	**56.45**	40-60
4.75	**32.90**	25-40
2.36	**24.50**	15-30
0.600	**17.05**	8-22
0.075	**3.80**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road.

Page No. 1/2,

A.E.E. (Project)

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Date: 24-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.74%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.53%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road.

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL- WMM6 **Date: 30-06-2021**

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix

(Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No 05 (Jakkur) Byatarayanapura Sub division ;

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.35	95-100
26.50	---	-
22.40	74.15	60-80
11.20	52.10	40-60
4.75	35.45	25-40
2.36	22.60	15-30
0.600	18.05	8-22
0.075	3.25	0-5

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Kattigenahalli Lake Rd

A.E.E (Project)

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Date: 28-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.89%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.51%**	Not more than 35.0 %
4.	Water absorption, %	**0.43 %**	Not more than 2.0 %
.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road.

A.E.E. (Project)

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Date: 02-07-2021

TABLE 1.2

Sl. No	Test conducted	Test Results	Tests Conforms to IS 2386 Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013
1	Aggregate Impact Value	27.65%	Not more than 30.00 %
2	Combined Flakiness and Elongation index, %	28.39 %	Not more than 35.0 %
3	Water absorption, %	0.42%	Not more than 2.0 %
4	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Sub Cross Road

AREE (Project)

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NC/QC/YPD/2020-21/KL-BD1

Date: 05-07-2021

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**52.80^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**108.90 cm**	40
3.	Flash point	**246^0 C**	Minimum 220^0 C
4.	Softening point	**51.20^0 C**	Min. 47

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road

Page No. 1/1,

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-CD1 **Date: 05-07-2021**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.
{Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**23.09%**	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	**26.71%**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Specific gravity	**2.62**	-------
5.	Soundness	**6.89 %**	Max. 12 % in Sodium Sulphate

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road

Page No. 1/1,

A.E.E (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-DBM1

Date: 07-07-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub : To determine the percentage of bitumen and gradation for DBM mix sample.

(Project* : Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref. Material testing PMC/20-21.

Report Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor* : K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.45**	90-100
19.0	**81.55**	71-95
13.20	**73.60**	56-80
4.75	**49.10**	38-54
2.36	**32.80**	28-42
0.300	**18.25**	7-21
0.075	**6.15**	2-8

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Smashana Road.

A.E.E (Project)

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NEW TECHNOLOGIES TO INNOVATE

NCC/A PD/2020-21/KL-DS1

Date: 07-07-2021

LTEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub To determine the stability of bituminous mix for DBM mix sample.

Project Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1256**	900
2	Marshall Flow at 60°C, mm.	**3.44**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road.

Page No. 1/1

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-DBM2

Date: 08-07-2021

I.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.51 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**97.15**	90-100
19.0	**81.35**	71-95
13.20	**72.40**	56-80
4.75	**46.70**	38-54
2.36	**32.05**	28-42
0.300	**18.90**	7-21
0.075	**5.20**	2-8

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road.

A.E.E. (Project)

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